



Laboratory Data Consultants, Inc.

7750 El Camino Real, Ste. 2L Carlsbad, CA 92009

Phone 760.634.0437

Web www.lab-data.com

Fax 760.634.0439

Anchor QEA, LLC
720 Olive Way, Suite 900
Seattle, WA 98101
ATTN: Ms. Cindy Fields

June 11, 2012

SUBJECT: Jorgensen Forge Outfall Site, Data Validation

Dear Ms. Fields,

Enclosed is the final validation report for the fraction listed below. This SDG was received on May 21, 2012. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 27678:

SDG # **Fraction**

UR93 Polychlorinated Biphenyls

The data validation was performed under EPA Level III guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; Update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,

Ming-Hwa Hwang
Project Manager/Senior Chemist

Attachment 1

EDD

LDC #27678 (Anchor Environmental-Seattle WA /Jorgensen Forge Outfall Site)

Shaded cells indicate Level IV validation (all other cells are Level III validation). These sample counts do not include MS, MSD, or DUP's.

27678ST.wpd

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Jorgensen Forge Outfall Site
Collection Date: March 27 through March 28, 2012
LDC Report Date: May 24, 2012
Matrix: Soil
Parameters: Polychlorinated Biphenyls
Validation Level: EPA Level III
Laboratory: Analytical Resources, Inc.

Sample Delivery Group (SDG): UR93

Sample Identification

B-DGS1-SO-02'-02.5'	B-DGS1-SO-17'-19'DUP
B-DGS1-SO-07'-07.5'	JF-DGS1-SO-30'-32'MS
B-DGS1-SO-17'-19'	JF-DGS1-SO-30'-32'MSD
JF-DGS1-SO-05'-07'	
JF-DGS1-SO-10'-12'	
JF-DGS1-SO-15'-17'	
JF-DGS1-SO-17'-19'	
JF-DGS1-SO-20'-22'	
JF-DGS1-SO-25'-27'	
JF-DGS1-SO-30'-32'	
JF-DGS2-SO-05'-07'	
JF-DGS2-SO-10'-12'	
JF-DGS2-SO-15'-17'	
JF-DGS2-SO-20'-22'	
JF-DGS3-SO-05'-07'	
JF-DGS3-SO-10'-12'	
JF-DGS3-SO-15'-17'	
JF-DGS3-SO-20'-22'	
JF-DGS3-SO-24'-24.8'	
JF-DGS3-SO-30'-32'	

Introduction

This data review covers 23 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodices were reviewed for documentation of cooler temperatures.

Cooler temperatures for samples B-DGS1-SO-02'-02.5', B-DGS1-SO-07'-07.5', B-DGS1-SO-17'-19', JF-DGS1-SO-05'-07', JF-DGS1-SO-10'-12', JF-DGS1-SO-15'-17', JF-DGS1-SO-17'-19', JF-DGS1-SO-20'-22', JF-DGS1-SO-25'-27', and JF-DGS1-SO-30'-32' were reported at 6.9°C upon receipt by the laboratory.

All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Affected Compound	Flag	A or P
5/5/12	AR1660-1651	ZB5	Aroclor 1260	20.4	JF-DGS2-SO-20'-22' JF-DGS3-SO-05'-07' JF-DGS3-SO-10'-12' JF-DGS3-SO-15'-17' JF-DGS3-SO-20'-22' JF-DGS3-SO-24'-24.8' JF-DGS3-SO-30'-32'	Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	J (all detects) UJ (all non-detects)	P

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

All internal standard areas and retention times were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation and Reported RLs

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to calibration %D problems, data were qualified as estimated in seven samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Level III data validation all other results are considered valid and usable for all purposes.

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

No field duplicates were identified in this SDG.

XV. Field Blanks

No field blanks were identified in this SDG.

Jorgensen Forge Outfall Site**Polychlorinated Biphenyls - Data Qualification Summary - SDG UR93**

SDG	Sample	Compound	Flag	A or P	Reason
UR93	JF-DGS2-SO-20'-22' JF-DGS3-SO-05'-07' JF-DGS3-SO-10'-12' JF-DGS3-SO-15'-17' JF-DGS3-SO-20'-22' JF-DGS3-SO-24'-24.8' JF-DGS3-SO-30'-32'	Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	J (all detects) UJ (all non-detects)	P	Continuing calibration (%D)

Jorgensen Forge Outfall Site**Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG UR93**

No Sample Data Qualified in this SDG

LDC #: 27678A3b

VALIDATION COMPLETENESS WORKSHEET

SDG #: UR93

Level III

Laboratory: Analytical Resources, Inc.

Date: 5/23/12

Page: 1 of 1

Reviewer: AA

2nd Reviewer: Q

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/27-3/28/12. SAMPLES 1-10 ARRIVED @ 6.9°C.
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	A	1-RSD ≤ 20%.
IV.	Continuing calibration/ICV	SW	1-D ≤ 20%, ICV/CCV
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates /LAB DUP.	A	MS/D
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation/RL/LOQ/LODs	N	
XIV.	Overall assessment of data	A	IS IS ACCEPTABLE
XV.	Field duplicates	N	
XVI.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: 801L

1	B-DGS1-SO-02'-02.5'	11	JF-DGS2-SO-05'-07'	21	B-DGS1-SO-17'-19'DUP	31	050112MB
2	B-DGS1-SO-07'-07.5'	12	JF-DGS2-SO-10'-12'	22	JF-DGS1-SO-30'-32'MS	32	
3	B-DGS1-SO-17'-19'	13	JF-DGS2-SO-15'-17'	23	JF-DGS1-SO-30'-32'MSD	33	
4	JF-DGS1-SO-05'-07'	14	JF-DGS2-SO-20'-22'	24		34	
5	JF-DGS1-SO-10'-12'	15	JF-DGS3-SO-05'-07'	25		35	
6	JF-DGS1-SO-15'-17'	16	JF-DGS3-SO-10'-12'	26		36	
7	JF-DGS1-SO-17'-19'	17	JF-DGS3-SO-15'-17'	27		37	
8	JF-DGS1-SO-20'-22'	18	JF-DGS3-SO-20'-22'	28		38	
9	JF-DGS1-SO-25'-27'	19	JF-DGS3-SO-24'-24.8'	29		39	
10	JF-DGS1-SO-30'-32'	20	JF-DGS3-SO-30'-32'	30		40	

Jorgensen Forge Outfall Site - LDC 27678

SDG: UR93

Analytical Method	SW8082											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
B-DGS1-SO-02'-02.5'	12-7469-UR93A	Aroclor 1254	5/5/2012	22		Yes	N	Y		22	6.1	ug/kg
B-DGS1-SO-02'-02.5'	12-7469-UR93A	Aroclor 1260	5/5/2012	59		Yes	Y			18	6.1	ug/kg
B-DGS1-SO-02'-02.5'	12-7469-UR93A	Aroclor 1268	5/5/2012	18		Yes	N	U		18	6.1	ug/kg
B-DGS1-SO-02'-02.5'	12-7469-UR93A	Aroclor 1221	5/5/2012	18		Yes	N	U		18	6.1	ug/kg
B-DGS1-SO-02'-02.5'	12-7469-UR93A	Aroclor 1232	5/5/2012	18		Yes	N	U		18	6.1	ug/kg
B-DGS1-SO-02'-02.5'	12-7469-UR93A	Aroclor 1248	5/5/2012	18		Yes	N	U		18	6.1	ug/kg
B-DGS1-SO-02'-02.5'	12-7469-UR93A	Aroclor 1262	5/5/2012	18		Yes	N	U		18	6.1	ug/kg
B-DGS1-SO-02'-02.5'	12-7469-UR93A	Aroclor 1242	5/5/2012	18		Yes	N	U		18	6.1	ug/kg
B-DGS1-SO-02'-02.5'	12-7469-UR93A	Aroclor 1016	5/5/2012	18		Yes	N	U		18	4.6	ug/kg
B-DGS1-SO-07'-07.5'	12-7470-UR93B	Aroclor 1268	5/5/2012	19		Yes	N	U		19	6.6	ug/kg
B-DGS1-SO-07'-07.5'	12-7470-UR93B	Aroclor 1232	5/5/2012	19		Yes	N	U		19	6.6	ug/kg
B-DGS1-SO-07'-07.5'	12-7470-UR93B	Aroclor 1242	5/5/2012	19		Yes	N	U		19	6.6	ug/kg
B-DGS1-SO-07'-07.5'	12-7470-UR93B	Aroclor 1262	5/5/2012	19		Yes	N	U		19	6.6	ug/kg
B-DGS1-SO-07'-07.5'	12-7470-UR93B	Aroclor 1221	5/5/2012	19		Yes	N	U		19	6.6	ug/kg
B-DGS1-SO-07'-07.5'	12-7470-UR93B	Aroclor 1248	5/5/2012	140		Yes	N	Y		140	6.6	ug/kg
B-DGS1-SO-07'-07.5'	12-7470-UR93B	Aroclor 1254	5/5/2012	730		Yes	Y			19	6.6	ug/kg
B-DGS1-SO-07'-07.5'	12-7470-UR93B	Aroclor 1260	5/5/2012	350		Yes	Y			19	6.6	ug/kg
B-DGS1-SO-07'-07.5'	12-7470-UR93B	Aroclor 1016	5/5/2012	19		Yes	N	U		19	4.9	ug/kg
B-DGS1-SO-17'-19'	12-7471-UR93C	Aroclor 1268	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
B-DGS1-SO-17'-19'	12-7471-UR93C	Aroclor 1262	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
B-DGS1-SO-17'-19'	12-7471-UR93C	Aroclor 1260	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
B-DGS1-SO-17'-19'	12-7471-UR93C	Aroclor 1254	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
B-DGS1-SO-17'-19'	12-7471-UR93C	Aroclor 1221	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
B-DGS1-SO-17'-19'	12-7471-UR93C	Aroclor 1232	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg

SDG: UR93

Analytical Method	SW8082											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
B-DGS1-SO-17'-19'	12-7471-UR93C	Aroclor 1016	5/5/2012	3.9		Yes	N	U		3.9	1.0	ug/kg
B-DGS1-SO-17'-19'	12-7471-UR93C	Aroclor 1242	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
B-DGS1-SO-17'-19'	12-7471-UR93C	Aroclor 1248	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
B-DGS1-SO-17'-19'LR	12-7471-UR93CD	Aroclor 1268	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
B-DGS1-SO-17'-19'LR	12-7471-UR93CD	Aroclor 1260	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
B-DGS1-SO-17'-19'LR	12-7471-UR93CD	Aroclor 1254	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
B-DGS1-SO-17'-19'LR	12-7471-UR93CD	Aroclor 1242	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
B-DGS1-SO-17'-19'LR	12-7471-UR93CD	Aroclor 1262	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
B-DGS1-SO-17'-19'LR	12-7471-UR93CD	Aroclor 1016	5/5/2012	3.9		Yes	N	U		3.9	1.0	ug/kg
B-DGS1-SO-17'-19'LR	12-7471-UR93CD	Aroclor 1248	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
B-DGS1-SO-17'-19'LR	12-7471-UR93CD	Aroclor 1232	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
B-DGS1-SO-17'-19'LR	12-7471-UR93CD	Aroclor 1221	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
JF-DGS1-SO-05'-07'	12-7472-UR93D	Aroclor 1232	5/5/2012	240		Yes	N	U		240	83	ug/kg
JF-DGS1-SO-05'-07'	12-7472-UR93D	Aroclor 1242	5/5/2012	240		Yes	N	U		240	83	ug/kg
JF-DGS1-SO-05'-07'	12-7472-UR93D	Aroclor 1254	5/5/2012	9800		Yes	Y			240	83	ug/kg
JF-DGS1-SO-05'-07'	12-7472-UR93D	Aroclor 1221	5/5/2012	240		Yes	N	U		240	83	ug/kg
JF-DGS1-SO-05'-07'	12-7472-UR93D	Aroclor 1248	5/5/2012	1800		Yes	N	Y		1800	83	ug/kg
JF-DGS1-SO-05'-07'	12-7472-UR93D	Aroclor 1016	5/5/2012	240		Yes	N	U		240	62	ug/kg
JF-DGS1-SO-05'-07'	12-7472-UR93D	Aroclor 1262	5/5/2012	240		Yes	N	U		240	83	ug/kg
JF-DGS1-SO-05'-07'	12-7472-UR93D	Aroclor 1260	5/5/2012	980		Yes	N	Y		980	83	ug/kg
JF-DGS1-SO-05'-07'	12-7472-UR93D	Aroclor 1268	5/5/2012	240		Yes	N	U		240	83	ug/kg
JF-DGS1-SO-10'-12'	12-7473-UR93E	Aroclor 1242	5/5/2012	38		Yes	N	U		38	13	ug/kg
JF-DGS1-SO-10'-12'	12-7473-UR93E	Aroclor 1262	5/5/2012	38		Yes	N	U		38	13	ug/kg
JF-DGS1-SO-10'-12'	12-7473-UR93E	Aroclor 1016	5/5/2012	38		Yes	N	U		38	9.6	ug/kg
JF-DGS1-SO-10'-12'	12-7473-UR93E	Aroclor 1248	5/5/2012	280		Yes	N	Y		280	13	ug/kg

SDG: UR93

Analytical Method	SW8082											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JF-DGS1-SO-10'-12'	12-7473-UR93E	Aroclor 1232	5/5/2012	38		Yes	N	U		38	13	ug/kg
JF-DGS1-SO-10'-12'	12-7473-UR93E	Aroclor 1260	5/5/2012	390		Yes	Y			38	13	ug/kg
JF-DGS1-SO-10'-12'	12-7473-UR93E	Aroclor 1254	5/5/2012	1300		Yes	Y			38	13	ug/kg
JF-DGS1-SO-10'-12'	12-7473-UR93E	Aroclor 1268	5/5/2012	38		Yes	N	U		38	13	ug/kg
JF-DGS1-SO-10'-12'	12-7473-UR93E	Aroclor 1221	5/5/2012	38		Yes	N	U		38	13	ug/kg
JF-DGS1-SO-15'-17'	12-7474-UR93F	Aroclor 1254	5/5/2012	29		Yes	Y			3.8	1.3	ug/kg
JF-DGS1-SO-15'-17'	12-7474-UR93F	Aroclor 1260	5/5/2012	17		Yes	Y			3.8	1.3	ug/kg
JF-DGS1-SO-15'-17'	12-7474-UR93F	Aroclor 1221	5/5/2012	3.8		Yes	N	U		3.8	1.3	ug/kg
JF-DGS1-SO-15'-17'	12-7474-UR93F	Aroclor 1232	5/5/2012	3.8		Yes	N	U		3.8	1.3	ug/kg
JF-DGS1-SO-15'-17'	12-7474-UR93F	Aroclor 1248	5/5/2012	5.6		Yes	N	Y		5.6	1.3	ug/kg
JF-DGS1-SO-15'-17'	12-7474-UR93F	Aroclor 1016	5/5/2012	3.8		Yes	N	U		3.8	0.96	ug/kg
JF-DGS1-SO-15'-17'	12-7474-UR93F	Aroclor 1262	5/5/2012	3.8		Yes	N	U		3.8	1.3	ug/kg
JF-DGS1-SO-15'-17'	12-7474-UR93F	Aroclor 1242	5/5/2012	3.8		Yes	N	U		3.8	1.3	ug/kg
JF-DGS1-SO-15'-17'	12-7474-UR93F	Aroclor 1268	5/5/2012	3.8		Yes	N	U		3.8	1.3	ug/kg
JF-DGS1-SO-17'-19'	12-7475-UR93G	Aroclor 1248	5/5/2012	3.8		Yes	N	U		3.8	1.3	ug/kg
JF-DGS1-SO-17'-19'	12-7475-UR93G	Aroclor 1260	5/5/2012	3.8		Yes	N	U		3.8	1.3	ug/kg
JF-DGS1-SO-17'-19'	12-7475-UR93G	Aroclor 1254	5/5/2012	3.8		Yes	N	U		3.8	1.3	ug/kg
JF-DGS1-SO-17'-19'	12-7475-UR93G	Aroclor 1268	5/5/2012	5.4		Yes	Y			3.8	1.3	ug/kg
JF-DGS1-SO-17'-19'	12-7475-UR93G	Aroclor 1232	5/5/2012	3.8		Yes	N	U		3.8	1.3	ug/kg
JF-DGS1-SO-17'-19'	12-7475-UR93G	Aroclor 1016	5/5/2012	3.8		Yes	N	U		3.8	0.96	ug/kg
JF-DGS1-SO-17'-19'	12-7475-UR93G	Aroclor 1262	5/5/2012	3.8		Yes	N	U		3.8	1.3	ug/kg
JF-DGS1-SO-17'-19'	12-7475-UR93G	Aroclor 1242	5/5/2012	3.8		Yes	N	U		3.8	1.3	ug/kg
JF-DGS1-SO-17'-19'	12-7475-UR93G	Aroclor 1221	5/5/2012	3.8		Yes	N	U		3.8	1.3	ug/kg
JF-DGS1-SO-20'-22'	12-7476-UR93H	Aroclor 1254	5/5/2012	260		Yes	Y			20	6.7	ug/kg
JF-DGS1-SO-20'-22'	12-7476-UR93H	Aroclor 1260	5/5/2012	120		Yes	Y			20	6.7	ug/kg

SDG: UR93

Analytical Method	SW8082											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JF-DGS1-SO-20'-22'	12-7476-UR93H	Aroclor 1268	5/5/2012	20		Yes	N	U		20	6.7	ug/kg
JF-DGS1-SO-20'-22'	12-7476-UR93H	Aroclor 1232	5/5/2012	20		Yes	N	U		20	6.7	ug/kg
JF-DGS1-SO-20'-22'	12-7476-UR93H	Aroclor 1248	5/5/2012	49		Yes	N	Y		49	6.7	ug/kg
JF-DGS1-SO-20'-22'	12-7476-UR93H	Aroclor 1016	5/5/2012	20		Yes	N	U		20	5.0	ug/kg
JF-DGS1-SO-20'-22'	12-7476-UR93H	Aroclor 1262	5/5/2012	20		Yes	N	U		20	6.7	ug/kg
JF-DGS1-SO-20'-22'	12-7476-UR93H	Aroclor 1242	5/5/2012	20		Yes	N	U		20	6.7	ug/kg
JF-DGS1-SO-20'-22'	12-7476-UR93H	Aroclor 1221	5/5/2012	20		Yes	N	U		20	6.7	ug/kg
JF-DGS1-SO-25'-27'	12-7477-UR93I	Aroclor 1221	5/5/2012	20		Yes	N	U		20	6.7	ug/kg
JF-DGS1-SO-25'-27'	12-7477-UR93I	Aroclor 1232	5/5/2012	20		Yes	N	U		20	6.7	ug/kg
JF-DGS1-SO-25'-27'	12-7477-UR93I	Aroclor 1248	5/5/2012	49		Yes	N	Y		49	6.7	ug/kg
JF-DGS1-SO-25'-27'	12-7477-UR93I	Aroclor 1016	5/5/2012	20		Yes	N	U		20	5.0	ug/kg
JF-DGS1-SO-25'-27'	12-7477-UR93I	Aroclor 1268	5/5/2012	20		Yes	N	U		20	6.7	ug/kg
JF-DGS1-SO-25'-27'	12-7477-UR93I	Aroclor 1262	5/5/2012	20		Yes	N	U		20	6.7	ug/kg
JF-DGS1-SO-25'-27'	12-7477-UR93I	Aroclor 1242	5/5/2012	20		Yes	N	U		20	6.7	ug/kg
JF-DGS1-SO-25'-27'	12-7477-UR93I	Aroclor 1254	5/5/2012	250		Yes	Y			20	6.7	ug/kg
JF-DGS1-SO-25'-27'	12-7477-UR93I	Aroclor 1260	5/5/2012	110		Yes	Y			20	6.7	ug/kg
JF-DGS1-SO-30'-32'	12-7478-UR93J	Aroclor 1262	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
JF-DGS1-SO-30'-32'	12-7478-UR93J	Aroclor 1242	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
JF-DGS1-SO-30'-32'	12-7478-UR93J	Aroclor 1016	5/5/2012	3.9		Yes	N	U		3.9	0.98	ug/kg
JF-DGS1-SO-30'-32'	12-7478-UR93J	Aroclor 1268	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
JF-DGS1-SO-30'-32'	12-7478-UR93J	Aroclor 1232	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
JF-DGS1-SO-30'-32'	12-7478-UR93J	Aroclor 1260	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
JF-DGS1-SO-30'-32'	12-7478-UR93J	Aroclor 1221	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
JF-DGS1-SO-30'-32'	12-7478-UR93J	Aroclor 1254	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
JF-DGS1-SO-30'-32'	12-7478-UR93J	Aroclor 1248	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg

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Analytical Method	SW8082											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
JF-DGS1-SO-30'-32'MS	12-7478-UR93JM	Aroclor 1254	5/5/2012	3.7		Yes	N	U		3.7	1.3	ug/kg
JF-DGS1-SO-30'-32'MS	12-7478-UR93JM	Aroclor 1262	5/5/2012	3.7		Yes	N	U		3.7	1.3	ug/kg
JF-DGS1-SO-30'-32'MS	12-7478-UR93JM	Aroclor 1248	5/5/2012	3.7		Yes	N	U		3.7	1.3	ug/kg
JF-DGS1-SO-30'-32'MS	12-7478-UR93JM	Aroclor 1232	5/5/2012	3.7		Yes	N	U		3.7	1.3	ug/kg
JF-DGS1-SO-30'-32'MS	12-7478-UR93JM	Aroclor 1221	5/5/2012	3.7		Yes	N	U		3.7	1.3	ug/kg
JF-DGS1-SO-30'-32'MS	12-7478-UR93JM	Aroclor 1268	5/5/2012	3.7		Yes	N	U		3.7	1.3	ug/kg
JF-DGS1-SO-30'-32'MS	12-7478-UR93JM	Aroclor 1242	5/5/2012	3.7		Yes	N	U		3.7	1.3	ug/kg
JF-DGS1-SO-30'-32'SD	12-7478-UR93JM	Aroclor 1254	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
JF-DGS1-SO-30'-32'SD	12-7478-UR93JM	Aroclor 1262	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
JF-DGS1-SO-30'-32'SD	12-7478-UR93JM	Aroclor 1268	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
JF-DGS1-SO-30'-32'SD	12-7478-UR93JM	Aroclor 1221	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
JF-DGS1-SO-30'-32'SD	12-7478-UR93JM	Aroclor 1232	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
JF-DGS1-SO-30'-32'SD	12-7478-UR93JM	Aroclor 1248	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
JF-DGS1-SO-30'-32'SD	12-7478-UR93JM	Aroclor 1242	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg
JF-DGS2-SO-05'-07'	12-7479-UR93K	Aroclor 1268	5/5/2012	3.8		Yes	N	U		3.8	1.3	ug/kg
JF-DGS2-SO-05'-07'	12-7479-UR93K	Aroclor 1232	5/5/2012	3.8		Yes	N	U		3.8	1.3	ug/kg
JF-DGS2-SO-05'-07'	12-7479-UR93K	Aroclor 1248	5/5/2012	3.8		Yes	N	U		3.8	1.3	ug/kg
JF-DGS2-SO-05'-07'	12-7479-UR93K	Aroclor 1016	5/5/2012	3.8		Yes	N	U		3.8	0.98	ug/kg
JF-DGS2-SO-05'-07'	12-7479-UR93K	Aroclor 1262	5/5/2012	7.6		Yes	Y			3.8	1.3	ug/kg
JF-DGS2-SO-05'-07'	12-7479-UR93K	Aroclor 1242	5/5/2012	3.8		Yes	N	U		3.8	1.3	ug/kg
JF-DGS2-SO-05'-07'	12-7479-UR93K	Aroclor 1260	5/5/2012	3.8		Yes	N	U		3.8	1.3	ug/kg
JF-DGS2-SO-05'-07'	12-7479-UR93K	Aroclor 1221	5/5/2012	3.8		Yes	N	U		3.8	1.3	ug/kg
JF-DGS2-SO-05'-07'	12-7479-UR93K	Aroclor 1254	5/5/2012	3.8		Yes	N	U		3.8	1.3	ug/kg
JF-DGS2-SO-10'-12'	12-7480-UR93L	Aroclor 1268	5/5/2012	39		Yes	N	U		39	13	ug/kg
JF-DGS2-SO-10'-12'	12-7480-UR93L	Aroclor 1242	5/5/2012	39		Yes	N	U		39	13	ug/kg

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Analytical Method	SW8082												
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units	
JF-DGS2-SO-10'-12'	12-7480-UR93L	Aroclor 1262	5/5/2012	39		Yes	N	U		39	13	ug/kg	
JF-DGS2-SO-10'-12'	12-7480-UR93L	Aroclor 1016	5/5/2012	39		Yes	N	U		39	9.9	ug/kg	
JF-DGS2-SO-10'-12'	12-7480-UR93L	Aroclor 1248	5/5/2012	39		Yes	N	U		39	13	ug/kg	
JF-DGS2-SO-10'-12'	12-7480-UR93L	Aroclor 1221	5/5/2012	39		Yes	N	U		39	13	ug/kg	
JF-DGS2-SO-10'-12'	12-7480-UR93L	Aroclor 1254	5/5/2012	390		Yes	N	Y		390	13	ug/kg	
JF-DGS2-SO-10'-12'	12-7480-UR93L	Aroclor 1260	5/5/2012	1000		Yes	Y			39	13	ug/kg	
JF-DGS2-SO-10'-12'	12-7480-UR93L	Aroclor 1232	5/5/2012	39		Yes	N	U		39	13	ug/kg	
JF-DGS2-SO-15'-17'	12-7481-UR93M	Aroclor 1262	5/5/2012	19		Yes	N	U		19	6.4	ug/kg	
JF-DGS2-SO-15'-17'	12-7481-UR93M	Aroclor 1242	5/5/2012	19		Yes	N	U		19	6.4	ug/kg	
JF-DGS2-SO-15'-17'	12-7481-UR93M	Aroclor 1016	5/5/2012	19		Yes	N	U		19	4.8	ug/kg	
JF-DGS2-SO-15'-17'	12-7481-UR93M	Aroclor 1260	5/5/2012	320		Yes	Y			19	6.4	ug/kg	
JF-DGS2-SO-15'-17'	12-7481-UR93M	Aroclor 1254	5/5/2012	140		Yes	N	Y		140	6.4	ug/kg	
JF-DGS2-SO-15'-17'	12-7481-UR93M	Aroclor 1268	5/5/2012	19		Yes	N	U		19	6.4	ug/kg	
JF-DGS2-SO-15'-17'	12-7481-UR93M	Aroclor 1221	5/5/2012	19		Yes	N	U		19	6.4	ug/kg	
JF-DGS2-SO-15'-17'	12-7481-UR93M	Aroclor 1232	5/5/2012	19		Yes	N	U		19	6.4	ug/kg	
JF-DGS2-SO-15'-17'	12-7481-UR93M	Aroclor 1248	5/5/2012	19		Yes	N	U		19	6.4	ug/kg	
JF-DGS2-SO-20'-22'	12-7482-UR93N	Aroclor 1268	5/5/2012	3.7		Yes	N	U		3.7	1.3	ug/kg	
JF-DGS2-SO-20'-22'	12-7482-UR93N	Aroclor 1221	5/5/2012	3.7		Yes	N	U		3.7	1.3	ug/kg	
JF-DGS2-SO-20'-22'	12-7482-UR93N	Aroclor 1232	5/5/2012	3.7		Yes	N	U		3.7	1.3	ug/kg	
JF-DGS2-SO-20'-22'	12-7482-UR93N	Aroclor 1248	5/5/2012	3.7		Yes	N	U	UJ	5	3.7	1.3	ug/kg
JF-DGS2-SO-20'-22'	12-7482-UR93N	Aroclor 1016	5/5/2012	3.7		Yes	N	U		3.7	0.95	ug/kg	
JF-DGS2-SO-20'-22'	12-7482-UR93N	Aroclor 1262	5/5/2012	3.7		Yes	N	U		3.7	1.3	ug/kg	
JF-DGS2-SO-20'-22'	12-7482-UR93N	Aroclor 1242	5/5/2012	3.7		Yes	N	U	UJ	5	3.7	1.3	ug/kg
JF-DGS2-SO-20'-22'	12-7482-UR93N	Aroclor 1254	5/5/2012	3.7		Yes	N	U	UJ	5	3.7	1.3	ug/kg
JF-DGS2-SO-20'-22'	12-7482-UR93N	Aroclor 1260	5/5/2012	3.7		Yes	N	U	UJ	5	3.7	1.3	ug/kg

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Analytical Method	SW8082												
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units	
JF-DGS3-SO-05'-07'	12-7483-UR93O	Aroclor 1268	5/5/2012	3.8		Yes	N	U		3.8	1.3	ug/kg	
JF-DGS3-SO-05'-07'	12-7483-UR93O	Aroclor 1242	5/5/2012	3.8		Yes	N	U	UJ	5	3.8	1.3	ug/kg
JF-DGS3-SO-05'-07'	12-7483-UR93O	Aroclor 1262	5/5/2012	3.8		Yes	N	U		3.8	1.3	ug/kg	
JF-DGS3-SO-05'-07'	12-7483-UR93O	Aroclor 1016	5/5/2012	3.8		Yes	N	U		3.8	0.98	ug/kg	
JF-DGS3-SO-05'-07'	12-7483-UR93O	Aroclor 1248	5/5/2012	3.8		Yes	N	U	UJ	5	3.8	1.3	ug/kg
JF-DGS3-SO-05'-07'	12-7483-UR93O	Aroclor 1221	5/5/2012	3.8		Yes	N	U		3.8	1.3	ug/kg	
JF-DGS3-SO-05'-07'	12-7483-UR93O	Aroclor 1254	5/5/2012	7.7		Yes	N	Y	UJ	5	7.7	1.3	ug/kg
JF-DGS3-SO-05'-07'	12-7483-UR93O	Aroclor 1260	5/5/2012	8.8		Yes	Y		J	5	3.8	1.3	ug/kg
JF-DGS3-SO-05'-07'	12-7483-UR93O	Aroclor 1232	5/5/2012	3.8		Yes	N	U		3.8	1.3	ug/kg	
JF-DGS3-SO-10'-12'	12-7484-UR93P	Aroclor 1016	5/5/2012	3.9		Yes	N	U		3.9	0.99	ug/kg	
JF-DGS3-SO-10'-12'	12-7484-UR93P	Aroclor 1268	5/5/2012	28		Yes	Y			3.9	1.3	ug/kg	
JF-DGS3-SO-10'-12'	12-7484-UR93P	Aroclor 1242	5/5/2012	3.9		Yes	N	U	UJ	5	3.9	1.3	ug/kg
JF-DGS3-SO-10'-12'	12-7484-UR93P	Aroclor 1262	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg	
JF-DGS3-SO-10'-12'	12-7484-UR93P	Aroclor 1260	5/5/2012	3.9		Yes	N	U	UJ	5	3.9	1.3	ug/kg
JF-DGS3-SO-10'-12'	12-7484-UR93P	Aroclor 1221	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg	
JF-DGS3-SO-10'-12'	12-7484-UR93P	Aroclor 1254	5/5/2012	9.9		Yes	Y		J	5	3.9	1.3	ug/kg
JF-DGS3-SO-10'-12'	12-7484-UR93P	Aroclor 1232	5/5/2012	3.9		Yes	N	U		3.9	1.3	ug/kg	
JF-DGS3-SO-10'-12'	12-7484-UR93P	Aroclor 1248	5/5/2012	3.9		Yes	N	U	UJ	5	3.9	1.3	ug/kg
JF-DGS3-SO-15'-17'	12-7485-UR93Q	Aroclor 1232	5/5/2012	3.6		Yes	N	U		3.6	1.2	ug/kg	
JF-DGS3-SO-15'-17'	12-7485-UR93Q	Aroclor 1242	5/5/2012	3.6		Yes	N	U	UJ	5	3.6	1.2	ug/kg
JF-DGS3-SO-15'-17'	12-7485-UR93Q	Aroclor 1262	5/5/2012	3.6		Yes	N	U		3.6	1.2	ug/kg	
JF-DGS3-SO-15'-17'	12-7485-UR93Q	Aroclor 1248	5/5/2012	3.6		Yes	N	U	UJ	5	3.6	1.2	ug/kg
JF-DGS3-SO-15'-17'	12-7485-UR93Q	Aroclor 1221	5/5/2012	3.6		Yes	N	U		3.6	1.2	ug/kg	
JF-DGS3-SO-15'-17'	12-7485-UR93Q	Aroclor 1268	5/5/2012	3.6		Yes	N	U		3.6	1.2	ug/kg	
JF-DGS3-SO-15'-17'	12-7485-UR93Q	Aroclor 1254	5/5/2012	18		Yes	N	Y	UJ	5	18	1.2	ug/kg

SDG: UR93

Analytical Method	SW8082												
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units	
JF-DGS3-SO-15'-17'	12-7485-UR93Q	Aroclor 1260	5/5/2012	60		Yes	Y		J	5	3.6	1.2	ug/kg
JF-DGS3-SO-15'-17'	12-7485-UR93Q	Aroclor 1016	5/5/2012	3.6		Yes	N	U			3.6	0.93	ug/kg
JF-DGS3-SO-20'-22'	12-7486-UR93R	Aroclor 1260	5/5/2012	32		Yes	Y		J	5	3.7	1.3	ug/kg
JF-DGS3-SO-20'-22'	12-7486-UR93R	Aroclor 1242	5/5/2012	3.7		Yes	N	U	UJ	5	3.7	1.3	ug/kg
JF-DGS3-SO-20'-22'	12-7486-UR93R	Aroclor 1016	5/5/2012	3.7		Yes	N	U			3.7	0.94	ug/kg
JF-DGS3-SO-20'-22'	12-7486-UR93R	Aroclor 1262	5/5/2012	3.7		Yes	N	U			3.7	1.3	ug/kg
JF-DGS3-SO-20'-22'	12-7486-UR93R	Aroclor 1232	5/5/2012	3.7		Yes	N	U			3.7	1.3	ug/kg
JF-DGS3-SO-20'-22'	12-7486-UR93R	Aroclor 1221	5/5/2012	3.7		Yes	N	U			3.7	1.3	ug/kg
JF-DGS3-SO-20'-22'	12-7486-UR93R	Aroclor 1254	5/5/2012	18		Yes	Y		J	5	3.7	1.3	ug/kg
JF-DGS3-SO-20'-22'	12-7486-UR93R	Aroclor 1248	5/5/2012	5.6		Yes	N	Y	UJ	5	5.6	1.3	ug/kg
JF-DGS3-SO-20'-22'	12-7486-UR93R	Aroclor 1268	5/5/2012	3.7		Yes	N	U			3.7	1.3	ug/kg
JF-DGS3-SO-24'-24.8'	12-7487-UR93S	Aroclor 1232	5/5/2012	3.8		Yes	N	U			3.8	1.3	ug/kg
JF-DGS3-SO-24'-24.8'	12-7487-UR93S	Aroclor 1242	5/5/2012	3.8		Yes	N	U	UJ	5	3.8	1.3	ug/kg
JF-DGS3-SO-24'-24.8'	12-7487-UR93S	Aroclor 1262	5/5/2012	3.8		Yes	N	U			3.8	1.3	ug/kg
JF-DGS3-SO-24'-24.8'	12-7487-UR93S	Aroclor 1248	5/5/2012	3.8		Yes	N	U	UJ	5	3.8	1.3	ug/kg
JF-DGS3-SO-24'-24.8'	12-7487-UR93S	Aroclor 1221	5/5/2012	3.8		Yes	N	U			3.8	1.3	ug/kg
JF-DGS3-SO-24'-24.8'	12-7487-UR93S	Aroclor 1268	5/5/2012	3.8		Yes	N	U			3.8	1.3	ug/kg
JF-DGS3-SO-24'-24.8'	12-7487-UR93S	Aroclor 1254	5/5/2012	3.8		Yes	N	U	UJ	5	3.8	1.3	ug/kg
JF-DGS3-SO-24'-24.8'	12-7487-UR93S	Aroclor 1260	5/5/2012	3.8		Yes	N	U	UJ	5	3.8	1.3	ug/kg
JF-DGS3-SO-24'-24.8'	12-7487-UR93S	Aroclor 1016	5/5/2012	3.8		Yes	N	U			3.8	0.97	ug/kg
JF-DGS3-SO-30'-32'	12-7488-UR93T	Aroclor 1268	5/5/2012	3.6		Yes	N	U			3.6	1.2	ug/kg
JF-DGS3-SO-30'-32'	12-7488-UR93T	Aroclor 1242	5/5/2012	3.6		Yes	N	U	UJ	5	3.6	1.2	ug/kg
JF-DGS3-SO-30'-32'	12-7488-UR93T	Aroclor 1262	5/5/2012	3.6		Yes	N	U			3.6	1.2	ug/kg
JF-DGS3-SO-30'-32'	12-7488-UR93T	Aroclor 1016	5/5/2012	3.6		Yes	N	U			3.6	0.92	ug/kg
JF-DGS3-SO-30'-32'	12-7488-UR93T	Aroclor 1248	5/5/2012	36		Yes	N	Y	UJ	5	36	1.2	ug/kg

SDG: UR93

Analytical Method	SW8082												
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units	
JF-DGS3-SO-30'-32'	12-7488-UR93T	Aroclor 1221	5/5/2012	3.6		Yes	N	U		3.6	1.2	ug/kg	
JF-DGS3-SO-30'-32'	12-7488-UR93T	Aroclor 1254	5/5/2012	36		Yes	N	Y	UJ	5	36	1.2	ug/kg
JF-DGS3-SO-30'-32'	12-7488-UR93T	Aroclor 1260	5/5/2012	4.5		Yes	N	Y	UJ	5	4.5	1.2	ug/kg
JF-DGS3-SO-30'-32'	12-7488-UR93T	Aroclor 1232	5/5/2012	3.6		Yes	N	U		3.6	1.2	ug/kg	
PCBS-MB0501121917	12-7471-UR93MB	Aroclor 1260	5/5/2012	4		Yes	N	U		4.0	1.4	ug/kg	
PCBS-MB0501121917	12-7471-UR93MB	Aroclor 1254	5/5/2012	4		Yes	N	U		4.0	1.4	ug/kg	
PCBS-MB0501121917	12-7471-UR93MB	Aroclor 1268	5/5/2012	4		Yes	N	U		4.0	1.4	ug/kg	
PCBS-MB0501121917	12-7471-UR93MB	Aroclor 1221	5/5/2012	4		Yes	N	U		4.0	1.4	ug/kg	
PCBS-MB0501121917	12-7471-UR93MB	Aroclor 1232	5/5/2012	4		Yes	N	U		4.0	1.4	ug/kg	
PCBS-MB0501121917	12-7471-UR93MB	Aroclor 1248	5/5/2012	4		Yes	N	U		4.0	1.4	ug/kg	
PCBS-MB0501121917	12-7471-UR93MB	Aroclor 1016	5/5/2012	4		Yes	N	U		4.0	1.0	ug/kg	
PCBS-MB0501121917	12-7471-UR93MB	Aroclor 1262	5/5/2012	4		Yes	N	U		4.0	1.4	ug/kg	
PCBS-MB0501121917	12-7471-UR93MB	Aroclor 1242	5/5/2012	4		Yes	N	U		4.0	1.4	ug/kg	